

PAT-NO: JP355146872A

DOCUMENT-IDENTIFIER: **JP 55146872 A**

TITLE: ORGANIC ELECTROLYTE BATTERY

PUBN-DATE: November 15, 1980

INVENTOR-INFORMATION:

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NAME	COUNTRY
HITACHI MAXELL LTD	N/A

APPL-NO: JP54053721

APPL-DATE: May 1, 1979

INT-CL (IPC): H01M002/16, H01M006/16

ABSTRACT:

PURPOSE: To prevent the increase of internal resistance and the breakage of separator, by installing a separator made from a sheet consisting of specific glass fibers and polypropylene fibers etc. between the positive pole mix and negative pole mix.

CONSTITUTION: A specific organic electrolyte is poured mostly into the negative pole side and partly into the positive pole side. A separator 6 made from a non-woven cloth consisting of 50∼80wt% glass fibers having 0.2∼1μm diameter and 50∼15wt% polypropylene or polyethylene fibers or a mixture of both is placed between the positive pole mix 2 and the negative pole mix 5. The periphery of this separator 6 is fixed under pressure between

a gasket 4 and the positive pole mix 2. The separator 6 does not give rise to breakage and/or local thinning because of its extensibility and the decrease of discharge voltage can be protected by the good liquid retaining property, even when the central part 7 of the positive pole mix 2 deforms, as if it had stood out greatly, due to swelling at the last stage of discharge.

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